

Gencore version 5.1.4.p5_4578
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2003, 03:00:20 ; Search time 318,707 Seconds

(without alignments)
4571.527 Million cell updates/sec

Title: US-09-001-737-7

Perfect score: 1661

Sequence: 1 GATTCGGCTCATATGCA.....TGGCGGATAGACCGAATTC 1661

Scoring table: IDENTITY: NUC
Gapop 10.0, Gapext 1.0

Searched: 593429 seqs, 43858390 residues 1186858

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

Published Applications: NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCF_NEM_PUB.seq:*
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- 12: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US60_NEM_PUB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1038.4	63.5	9	US-10-267-311-50
2	942.6	56.7	10	US-09-070-927A-42
3	615.8	37.1	10	US-09-790-988-1
4	589.8	35.5	10	US-09-650-438-13
5	530.4	31.9	10	US-09-841-132-180
6	483.6	28.1	7	US-08-781-968A-266
7	464.2	27.9	10	US-08-738-626-655
8	461.6	27.8	9	US-10-267-311-20
9	458.6	27.6	9	US-10-267-311-28
10	458.6	27.6	9	US-10-267-311-3
11	458.6	27.6	9	US-10-267-311-23
12	458.6	27.6	9	US-10-267-311-16
13	458.4	27.6	9	US-09-738-626-2986
14	457.2	27.5	9	US-10-068-059-7
15	457	27.5	9	US-10-068-059-5
16	456.4	27.5	9	US-10-068-059-11
17	456.2	27.4	9	US-10-068-059-9
18	455.6	27.3	12	US-10-007-693-19
19	453.4	27.3	12	US-10-007-693-19

ALIGNMENTS

20	446.8	26.9	1526	9	US-10-051-643-159	Sequence 159, App
21	446.8	26.9	1526	9	US-09-880-505-159	Sequence 159, App
22	446.2	26.9	1734	9	US-09-388-842A-2463	Sequence 2463, App
23	444.8	26.8	1569	9	US-10-051-643-113	Sequence 113, App
24	444.8	26.8	1569	9	US-09-880-505-113	Sequence 113, App
25	419.4	25.2	1761	9	US-09-388-842A-216	Sequence 216, App
26	411.4	24.8	2360	10	US-09-834-375-774	Sequence 774, App
27	401.4	24.2	1575	9	US-09-388-842A-1653	Sequence 1653, App
28	385	21.4	783	10	US-09-974-300-1947	Sequence 1947, App
29	337.8	20.3	1344	9	US-10-267-311-52	Sequence 52, App
30	300.6	18.1	1158	9	US-09-738-626-667	Sequence 667, App
31	273.8	16.5	985	9	US-10-051-643-161	Sequence 161, App
32	273.8	16.5	985	9	US-09-880-505-161	Sequence 161, App
33	271.8	16.4	927	9	US-10-051-643-116	Sequence 116, App
34	271.8	16.4	927	9	US-09-880-505-116	Sequence 116, App
35	256.6	15.7	565	10	US-09-974-300-6301	Sequence 6301, App
36	256.6	15.4	772	12	US-10-007-693-113	Sequence 693, App
37	247	14.9	525	10	US-09-974-300-6303	Sequence 6303, App
38	198.8	12.0	644	7	US-08-781-968A-797	Sequence 797, App
39	176.6	10.6	647	9	US-10-051-643-115	Sequence 115, App
40	176.6	10.6	647	9	US-09-880-505-115	Sequence 115, App
41	173.4	10.4	888	9	US-10-267-311-32	Sequence 32, App
42	162.2	9.8	400	10	US-09-974-300-6301	Sequence 6301, App
43	149.6	9.0	630	10	US-09-998-598-744	Sequence 744, App
44	145.6	8.8	256	10	US-09-974-300-1987	Sequence 1987, App
45	132.6	8.0	406	10	US-09-925-301-701	Sequence 701, App

RESULT 1
US-10-267-311-50
Sequence 50, Application US/10267311
Publication No US2003050465A1
GENERAL INFORMATION:
APPLICANT: Stegel, Marvin
APPLICANT: Chu, N. Randall
TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT FILING DATE: US/10/267, 311
PRIOR APPLICATION NUMBER: US/09/613, 303
PRIOR FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US 60/143, 757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 50
LENGTH: 1926
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
NAME/KEY: CDS
LOCATION: (1)...(1923)
US-10-267-311-50
Query Match 62.5%; Score 1038.4; DB 9; Length 1926;
Best Local Similarity 77.5%; Pred. No. 2.2e-244;
Matches 1558; Conservative 0; Mismatches 366; Indels 0; Gaps 0;

QY	15	ATGCGAAGAAATCAATTTTCAGAGATGCGGTCTCCATGTCGCGAGTTGAT	74
DB	1	ATGCGAAGAAATCAATTTTCAGATGCGGTCTCCATGTCGCGAGTTGAT	60
QY	75	ATGTTAGCAGATCCGTCAGTGAAGTGTCTTAAAGGCGCAATGTTGTTGAA	134
DB	61	ATCCCTGCAGATACGTTAAAGTAACTTTGGGACCAAAAGCGCAATGCTTTGAA	120
QY	135	AAACCTTTTGCTTCCTTAACTAATGACGGGGTAAACATTCTGTAAGATCGAA	194

[illegible]

Db 1201 ACTGTGACGCTGTTGAAGACGATTTGTTCGACGGTGTGGAACAGCTCTTCCCAATGTG 1260
 Oy 1275 ATTGAANAAGTACGACGCTCTTGAGCTTGGAGGCGCATATGCTCTGACGTAACATTTGTG 1334
 Db 1261 ATTCCAGCTGTCTGCTACTCTTGAAATTAACAGAGATGACAGCAACAGACGTAATATTTGT 1320
 Oy 1335 CTGTGGCTCTTGAAGAGCGCTGTACGTCAAATTTGTTTAAATGCTGGGTACGAAGGCTCC 1394
 Db 1321 CTCGGTCTCTTGGAAAGACCTGTGTGCAAAATTTGTCTACATACAGATTTTGAAGGACT 1380
 Oy 1395 GTACTTATTGACAGATTGAAGAAAACGCCCTGCAGAACAGAGATTTAATGCTGCACAGT 1454
 Db 1381 ATGCTTATGATCGCTTTGAAAATTAAGTCACTGGTATAGATTAACCGCAGCACTGTGC 1440
 Oy 1455 GAGTGGGTGATGATGATTAATAACAGAGATCATTTGACCCCTGCAAGTAAACAGTACAGC 1514
 Db 1441 GAGTGGGTAAACAGATTTGATCATGATCATTTGATTCACAGTAAAGTGAAGCTTGACCC 1500
 Oy 1515 CTTCAAATATGACAGCTTCTGTAGCTAGTCTTATTATTTGACAAACAGAGAGTGTGCTAT 1574
 Db 1501 CTAAATAATGACAGATCTGTACCAAGGTTGATTTTGAACAACAGACAGTGTAGCAAT 1560
 Oy 1575 AAACCTGAACAGCATAGCCAGCCGACAGCAATGACCAGATGATGATCCAGGAATGATG 1634
 Db 1561 AAACCTGAACAGCATAGCCAGCCAGCTCCAGCAATGATGATCAAGTATGATGGTGAATGGC 1620
 Oy 1635 GGTG 1638
 Db 1621 GGAG 1624

RESULT 2
 US-09-070-927A-42
 : Sequence 42, Application US/09070927A
 : Patent No. US20020120116A1
 : GENERAL INFORMATION:
 :
 : APPLICANT: Charles A. Kunisch
 : Patrick J. Dillon
 : Seven Barash
 : TITLE OF INVENTION: Enterococcus faecialis Polynucleotides and Polypeptides
 : NUMBER OF SEQUENCES: 992
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Human Genome Sciences, Inc.
 : STREET: 9410 Key West Avenue
 : CITY: Rockville
 : STATE: Maryland
 : COUNTRY: USA
 : ZIP: 20850
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
 : COMPUTER: HP Vectra 486/33
 : OPERATING SYSTEM: MSDOS version 6.2
 : SOFTWARE: ASCII Text
 :
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/070,927A
 : FILING DATE: 04-May-2000
 : CLASSIFICATION: <Unknown>
 :
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: 60/046,655
 : FILING DATE: 1997-05-16
 : APPLICATION NUMBER: 60/044,031
 : FILING DATE: 1997-05-06
 : APPLICATION NUMBER: 60/066,009
 : FILING DATE: 1997-11-14
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Kenley K. Hoover
 : REGISTRATION NUMBER: 40,302
 : REFERENCE/DOCKET NUMBER: PB369
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (301) 309-8504
 : TELEFAX: (301) 309-8512
 : INFORMATION FOR SEQ ID NO: 42:
 : SEQUENCE CHARACTERISTICS:

Wed Apr 16 08:05:36 2003

us-09-001-737-7.rmpb

Page 3

LENGTH: 3625 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 42:
us-09-070-927A-42

Query Match 56.7% Score 942.6 DB 10: Length 3625;
Best Local Similarity 74.2% Pred. No. 8,9e-221;
Matches 1191; Conservative 0; Mismatches 415; Indels 0; Gaps 0;

OY 15 ATGGCAAAAGAAATCAAAATTTTCAGCAGATGCGCGTGGCCATGGTGGCGAGATTGAT 74
Db ATGGCAAAAGAGNTTAAATTTGCAAGAGATGCACTGCAGCAATGCTACGGCGAGATGAT 423
OY 75 ATGTTAGCAGATACCGTCAAGTAACTGCTGCTAAAGGGCGCAATGTTCTTGA 134
Db GTATTAGCAGATACGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 483
OY 135 AAAGCTTTGGTCTGCTTAAATTAATGACGGGGGAAACCAATGCTAAAGATGCA 194
Db AAATCATTTGGTCTGCTTAAATTAATGACGGGGGAAACCAATGCTAAAGATGCA 543
OY 195 TTGAAAGATCTTTTGAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 254
Db TTGAAAGATCTTTTGAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 603
OY 255 AATGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 314
Db AATGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 663
OY 315 GAAGCACTAAAGATGTCAGCAGTGTGTAATCCATGTTGCTGCTGCTGCTGCTGCTGCT 374
Db GAAGCACTAAAGATGTCAGCAGTGTGTAATCCATGTTGCTGCTGCTGCTGCTGCTGCT 723
OY 375 ACAGCAACAGCAACAGCTGTTGAAGCTTGAAGCAATGCTGCTGCTGCTGCTGCTGCT 434
Db TTAGCAACAAAGCAACAGCTGTTGAAGCAATGCTGCTGCTGCTGCTGCTGCT 783
OY 435 GAAGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 494
Db GAAGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 843
OY 495 TCAGAGCTATGAGAGCTGTGTCAGCAGTGTGTAATCCATGTTGCTGCTGCTGCTGCT 554
Db GCGGATGCTATGAGAGCTGTGTCAGCAGTGTGTAATCCATGTTGCTGCTGCTGCTGCT 903
OY 555 ATGGAACAGAACTTGAAGTGTGTAAGGCAATTTGACCGTGTGCTGCTGCTGCTGCTGCT 614
Db ATGGAACAGAACTTGAAGTGTGTAAGGCAATTTGACCGTGTGCTGCTGCTGCTGCTGCT 963
OY 615 TACATGCTCAGACAGATGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 674
Db TACATGCTCAGACAGATGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1023
OY 675 ACGATTAATAAGTGTCAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 734
Db ACCGCAAAATGCTCAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1083
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OY 795 GCTGTGAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 854
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Db GATGCTGTAAGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1263
OY 915 GAGATCTAGGACTTGAATTTAAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 974
Db GAGATCTAGGACTTGAATTTAAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

Db 1264 GACGACTTAGGCTTAGGCTTAAAGCAACATTTGAAAGCAATGCTGCTGCTGCTGCTGCT 1323
OY 975 ATTCAGATGTAAGATAGCACTAATTTGTAAGCTGAGAGATGCTGCTGCTGCTGCTGCT 1034
Db 1324 GTAGTGTGCAAGAGATAGCACTAATTTGTAAGCTGAGAGATGCTGCTGCTGCTGCTGCT 1383
OY 1035 GCTAAGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1094
Db 1384 GATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1443
OY 1095 GAAAGCTGCAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1154
Db 1444 GAAAGCTGCAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1503
OY 1155 GCTGCAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1214
Db 1504 GCTGCAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1274
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Db 1624 ATGGAAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1394
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Db 1684 GTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1743
OY 1395 GTAGTATGCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1454
Db 1744 GTAGTATGCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1803
OY 1455 GAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1514
Db 1804 GAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1863
OY 1515 CTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1574
Db 1864 CTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1923
OY 1575 AAACCTGAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620
Db 1924 AAACCTGAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1969

RESULT 3
US-09-790-988-1
Sequence 1, Application US/09790988
Patent No. US20020127687A1
GENERAL INFORMATION:
APPLICANT: SHIGEMBU, SHUJI
APPLICANT: MATSUMOTO, HIDEMI
APPLICANT: MATSUMOTO, MASAHIRA
APPLICANT: SAKAKI, YOSHIYUKI
TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
FILE REFERENCE: 081356/015
CURRENT APPLICATION NUMBER: US/09/790,988
PRIORITY FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: JP2000-107160
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 640681
TYPE: DNA
ORGANISM: Buchnera sp.
US-09-790-988-1
Query Match 37.1% Score 615.8 DB 10: Length 640681;
Best Local Similarity 62.8% Pred. No. 1.5e-139;
Matches 991; Conservative 0; Mismatches 582; Indels 6; Gaps 2;

[illegible]

Db 658 GAAGACAAGTTCGAAATATGGTCCGACAGATGGTGAAGAAGTTCCTCTAAAGCAAC 717
 Oy 258 GATATGCTGGTGAATGGAGACACTACTGCAACAGTTTGGACACAGCACTTGTTCATGAA 317
 Db 718 GAGCGTCGACGCGGACGATACACACACGATGACGCTCAGGCTCAGCTCAGTCACTGAA 777
 Oy 318 GCACTAAAAATGTGACAGCAGCTGCTAATCAATTTGGTATCCCTGAGGACATTTGAAACA 377
 Db 778 GGTCTGAAAAGCTGTCTGGCGCATGACCCGATGAGACCTGAAAGAGCTGGTTCGACAAA 837
 Oy 378 GCACAGCAGACAGCTGTTGAAACCTTGAAGCCATTGCTCAACCTGATCTGGCAAGAA 437
 Db 838 GCGGTTACCGCTGAGTTGAAGAACTGAAGCCGCTGCCGATGACCTAGTACTCTAAA 897
 Oy 438 GCTATTGCTCAGTCTGCTGACATCAATCAAGCTC---TGAAGAAAGTTGAGAGATATG 494
 Db 898 GCGATTGCTCAGTGTGATCACTCCGCTAATCCGACGAAACCCCTAGTAACTATG 957
 Oy 495 TCAGAACTATGAGGCTGGGCAAGATGGTGTGATTAACATCAAGAAATCTGAGGT 554
 Db 958 GCTGAAGCGATGACAAAGTCCGTAAGAGCGTTTACCCGTTGAAAGACGATCCGCT 1017
 Oy 555 ATGGAACAGACCTGTAAGTGGTTGAAGGCATTTGACCGTGGTTACCTGCTCAA 614
 Db 1018 CTGACAGACAGACCTGAGTGGTTGAAGGTGACAGTTGCAAGCTGGCTACCTGCTCT 1077
 Oy 615 TACATGCTCAGACACATGAAAAATGGTTGACAGCTTGAAGAACCATTTATCTTATC 674
 Db 1078 TACTTCATCAACAAAGCCGGAACCTGGCCAGTAAGACGGAAGCCCGCTGATCCTGCTG 1137
 Oy 675 ACCGATAAAAAGTCTCAAAACATCCAAAGACATTTGCCACTAGTGAAGATTTCTAAA 734
 Db 1138 GCTGACAGAAAAATCTCCAACTCCGCGAAATGCTGCCGTTCTGGAACCTGTTGCCAAA 1197
 Oy 735 ACCAAGCCTCATTAATCTATTATGAGATGATGGATGATGAACCTGCAACCTG 794
 Db 1198 GCAGGCAACCGCTGCTGATCTGCTGAAGATGTAAGAACGCAACCGCTGGCAACTG 1257
 Oy 795 GCTTGAACAAAGATTCGCTGATCTTCAATGCTGCTGCTGCTGCAACCGCAGATTTGGT 854
 Db 1258 GTTGTAAACACATCGCTGCAATGCTGAAGCTCGCTGCTTAAACACCGCGCTTGCGG 1317
 Oy 855 GATCGTGAACCTATGCTTGAAGACATTTGCTATCTGACAGCTGTACAGTATTACA 914
 Db 1318 GATCGTGAACCTATGCTGCTGAAGATTCGCAACCTGACCTGCGTACCGTATCTCT 1377
 Oy 915 GAGATCTAGACCTGTAATTAAGATGCTACATGACAGCCCTTGAACAGCTGCTAAG 974
 Db 1378 GAAGAGATCGTATGAGAGCTGGAAGAAAGCAACCTGGAAGACCTGGCTGCTAAACGT 1437
 Oy 975 ATTACAGTGAATGAATAGACAGTAAATTGTTGAAGGTTGACGAAGTTTGAAGCTATT 1034
 Db 1438 GTTGATGATCAAAAGACACACCACTATCATCATGCGTGGGTGAAGAGCTGAATC 1497
 Oy 1035 GCTAACGTAATGCACTGATTAATATGCAATTAAGAAACAACTTCTGACTGAGCCCT 1094
 Db 1498 CAGGCGGCTGCTCAGATCCGTCAGACAGATTAAGAAACAACTTCTGACTGAGCCCT 1157
 Oy 1095 GAAAAAGTCAAGAAAGCTTGGCGAAATTAAGTGGTGTGATGCTTAAAGTAAAGTA 1154
 Db 1558 GAAAAAGTCAAGAAAGCTTGGCGAAATTAAGTGGTGTGATGCTTAAAGTAAAGTA 1617
 Oy 1155 GCTCAACAGACAGCTTTAAAAAGAAATGAAGTTCGCTAGAGATGCTTAAAGTCT 1214
 Db 1618 GCTGCTACGAAAGTTGAATGAAGAAAGAAAGACGCGCTTAAGAAATGCGCTCAGCGG 1677
 Oy 1215 ACAGTGCACCGCTTGAAGAAAGTATCGTGTGCTGCTGGAACAGCACTATTACGCTT 1274
 Db 1678 ACCGCTGCTCGGTGAAGAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1737
 Oy 1275 ATTGAAGAAAGTCAAGCTTGAAGAAAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1331
 Db 1738 GCGCTAAAGTGGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1797

Oy 1332 GTGCTTGTCTCTAGAGAGCCCTGACGTCMAATTCCTTTAAATGCTGGGTACAGGC 1391
 Db 1798 GCAGTCTGCTGCAATGAGAGCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1857
 Oy 1392 TCCGTAATTAATGACAGTTGAAAGAAAGCCCTCAGAGAAAGATTTAAATGCTGACA 1451
 Db 1858 TCTGTGTGCTTAAACAGCTTAAAGCGGCGACGCAAGTACAGGTTCACAGCAGAAC 1917
 Oy 1452 GGTGAGTGGTGAATGATTAAGAAAGATTCATGACCTGCTGCTGCTGCTGCTGCTGCT 1511
 Db 1918 GAAGATACGCAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1977
 Oy 1512 GCGCTCAAAATGACGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1571
 Db 1978 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2037
 Oy 1572 AATAAGCTGAACAGCTACGCGCAGAGCAATGCAAGTATG 1620
 Db 2038 GACCTGCCGAAAAACGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2086
 RESULT 5
 US-09-841-132-380
 ; Sequence 380, Application US/09841132
 ; Patent No. US20020061848A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Biotech, Aja
 ; APPLICANT: Skelky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841.132
 ; NUMBER OF SEQ ID NOS: 399
 ; SOFTWARE: FastSeq for Windows Version 3.0/4.0
 ; SEQ ID NO 380
 ; LENGTH: 1635
 ; TYPE: DNA
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-380
 Query Match 31.9%; Score 530.4; DB 10; Length 1635;
 Best Local Similarity 59.5%; Pred. No. 5,2e-120;
 Matches 957; Conservative 0; Mismatches 636; Indels 15; Gaps 3;
 Oy 18 GCAAGAAATCAATTTTACAGAGATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 77
 Db 7 GCGAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 66
 Oy 78 TTAGAGATACCGCAAGTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 137
 Db 67 CTGCAAGAGCAAGTAAGTAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 126
 Oy 138 GCTTTGCTTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 197
 Db 127 AGCTTGTGCTTCCCAAGTGAATGAATGATGATGATGATGATGATGATGATGATGATGAT 186
 Oy 198 GAGATCAATTTGAAGACATGAGCAAAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 257
 Db 187 GAAGAAACATTAAGAAATGAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 246
 Oy 258 GATATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 317
 Db 247 GACAAAGCAGCGGAGGAGACTCAACAGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 306
 Oy 318 GCACTAAAAATGAGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 377
 Db 307 GCTTAAGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 366
 Oy 378 GCAACGCAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 437

Db 367 GCCGTAAAGTTGTTGATGAGTCACTCAAAAAATTAGTAACCTGTACACATCAAAAA 426
 Oy 438 GCTATTGCTAGAGTGGCTGAGATATCATCAAGCTCTGA---AAAGTTGAGATATATC 494
 Db 427 GAAATGCTGCTAGAGTACTACTATCTACCAAAATAGATATCCGAAATCCGAAATCTTATT 486
 Oy 495 TCAGAGCTATGAGAGCGTGGGCAACGATGTGTATACCATCCGAAATCTGGAGGT 554
 Db 487 GCAGAAAGCTATGAGAAAGTTGGTAAACGATTCATTTACTGTGTAAAGACTAAAGGC 546
 Oy 555 ATGGAACGAGACTTGAAGTGTGAGAGCATATTTGACCTGGTATACCTGTCACAA 614
 Db 547 TTGGAAACGTGTTCTGACGCTGTAGAGAGATATACCTCAACCGTGTATCTCCACG 606
 Oy 615 TACATGTGTACAGCAATGAAAAATGGTTGCAGACTTGAAACCCATTATCTTATC 674
 Db 607 TACTCTCCACAAATCCAGAAATCGATGAGATGCGTTTGAAGACGCTCTGATTTATC 666
 Oy 675 ACGGATAAAAAGTGTCAAAACATCCAGACATTTGGCCACTACTGTAAGAGATCTTTAA 734
 Db 667 TAGGATAAAAAATCTCTGAAATTAAGACTCTTCAGATTTCACAGATAGCAGAA 726
 Oy 735 ACCAACGCTCATTTACTCATTTATTCAGATGATGTGATGAGTGAAGCATTCACACCTT 794
 Db 727 TCTGGACGCGCTTTTAACTTATTCATGTCAGAAAGAAATGAAGAGAGCTTTACACCTTA 786
 Oy 795 GTCTTGACAAAGATTCTGCTGACTTTCAATGTGTGCTGTCACAAAGCGCCAGAGATTGT 854
 Db 787 GTAGTCAATAGACTCGGTGAGAGATTCAGAGTCTGTGCAAGTGAAGACCTCTGTTGGT 846
 Oy 855 GATCGTCGTAAGGATGCTGTAAGACATGCTATCTGATGAGAGTGTACAGTATTCAC 914
 Db 847 GACAGAAAGAAAGCTATGTTAAAGACATCGCTATCTCTGATGAGCCATGATAGC 906
 Oy 915 GAGGATCTAGACTTGAATTAAGATGTACAAATGACAGCCCTGTGACAGGCTGTAG 974
 Db 907 GAAAGACTGTGATGAAAGTAAAGTAACTGATGAGATGTTAGAAAGACTAGAGAA 966
 Oy 975 ATTACAGTTGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1034
 Db 967 GTATGCTGATGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1026
 Oy 1035 GCTAACGCTATTGCTGATTAATTCGCAATTTGAAAGTAAAGTAAAGTAAAGTAAAGT 1094
 Db 1027 CAAGCTGATGCGCAATATTTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1086
 Oy 1095 GAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1154
 Db 1087 GAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1146
 Oy 1155 GCTCAAGAGAGAGCTTTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1214
 Db 1147 GCTGCTACCGAAATAGATGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1206
 Oy 1215 ACAGCTGAGAGCTTTGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1274
 Db 1207 ACCATTGCTGCTGCGAAGAGAAATCTCTCGGTGGTGAAGTCTCTTGGTGGCTGT 1266
 Oy 1275 ATTGAAAAAGTAGAGCTCTTGAGCTTGAG-----GGCAGTATGCTACTGAGAGCT 1325
 Db 1267 ATCCCTACACTAGAGCTTTCT 1326
 Oy 1326 AACATTGCTGCTGCT 1385
 Db 1327 CGATTATATCTTAAAGCATTAACAGCTCCATTAAAGCATTAACAGCTCCATTAAAGCAT 1386
 Oy 1386 GAAGGCTCCGAGTATTTAGCAAGTGAAGAAACAGCCCTGAGAGAAAGAGATTAAGGCT 1445
 Db 1387 GAAGGCTCCGAGTATTTAGCAAGTGAAGAAACAGCCCTGAGAGAAAGAGATTAAGGCT 1446
 Oy 1446 GCAAGAGTGTGAGGCTGATGATTAAGAAAGAGAGATTAAGGCTGATTAAGGCTGATTAAG 1505
 Db 1447 TTACGTGAGCTTTATACAGATTTGATGAGAGAGATTTTATGATCAACTAAAGTGAAGCT 1506

Oy 1506 CGATCAGCGCTTCAAAATGATGAGTCTGCTAGTACTGTTATTTTGCAGAGAGAGCT 1565
 Db 1507 CGCTCAGCTCTGAAAGCGCGCTTCTATCCGAGATTAAGTCTCTCAGAGAGAGCTTA 1566
 Oy 1566 GTCTCAATTAAGCTGAA---CCAGCTAGCGCAGCGCAGCAATCCCA 1610
 Db 1567 ATCCGCTATATCCAGAGAGAAATCTTCTACCTTCAGAGATGCCA 1614
 RESULT 6
 US-08-781-986A-266
 : Sequence 266, Application US/08781986A
 : Publication No. US2003005436A1
 : GENERAL INFORMATION:
 : APPLICANT: Charles Kunsch
 : TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
 : NUMBER OF SEQUENCES: 5255
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Human Genome Sciences, Inc.
 : STREET: 9410 Key West Avenue
 : CITY: Rockville
 : STATE: Maryland
 : COUNTRY: USA
 : ZIP: 20850
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
 : COMPUTER: HP Vectra 486/33
 : OPERATING SYSTEM: MSDOS version 6.2
 : SOFTWARE: ASCII Text
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/781.986A
 : FILING DATE:
 : CLASSIFICATION: 435
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER:
 : FILING DATE:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Benson, Bob
 : REGISTRATION NUMBER: 30,446
 : REFERENCE/DOCKET NUMBER: P8248PP
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (301) 309-8504
 : TELEFAX: (301) 309-8512
 : INFORMATION FOR SEQ ID NO: 266:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1017 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: double
 : TOPOLOGY: linear
 : US-08-781-986A-266
 Query Match 29.18; Score 483.6; DB 7; Length 1017;
 Best Local Similarity 67.2%; Pred. No. 1.2e-108;
 Matches 681; Conservative 2; Mismatches 331; Indels 0; Gaps 0;
 Oy 308 TGTTCATGAGAGCTTAAATAATGTGACAGAGTGTCTAATCCATTTGATCGTCGAG 367
 Db 1 TTTCGAAAGAGCTTTGAAATATGTTTCAAGTGTGCGAGGCCAGTGTGTTAGCAAGG 60
 Oy 368 CATGAAAGAGCAGACAGACAGCTGTGAAAGCTTGAAGAGCAATGCTCAACCTGTATC 427
 Db 61 TATGCAAGAGAGAGTAAAGTGTGTTGAAGAGCTTACATGAAATTTCTAAAGTTGA 120
 Oy 428 TGGCAGAGAGAGTATGCTAGAGTGTGCTGAGATATCATACAGCTCTGAAAGTGGAGA 487
 Db 121 AATATAAATGAATTTCCGAAAGTGTGATTTTGAAGAGATTAAGAAATTTGAGC 180
 Oy 488 GTATATCTAGAGCTATGAGAGCTGTGGCAGACATGTGTGATTTCCATGGAAGATC 547
 Db 181 TTATTTTGTAGAGCTATGGAAGAGTGTGATGATGATGATGATGATGATGATGATGAT 240
 Oy 548 TCAGAGTATGAGAAACAGAACTGAAGTGAAGTGAAGCATCAATTGACGCTGTTACT 607

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Db 241 AATGACCTAAACACTGAACTGAAAGGTTGAGATGCAATTTGATGCTGGTTATCA 300
Qy 608 GTCTCATACATGCTGACAGCAATGAAAAATGGTTGACACCTTGAACCATTAT 667
Db 301 ATCCCGATATATGTTAGTACATTAATAATGGTTGCAATTTGAAACCCCATCAT 360
Qy 668 CTTAATCAGGATAAAAAAGTGCMAACATTTTCCACTACTTGTGAGAGT 727
Db 361 TTTAGTACAGATAGAAAAATCTGCTTCCAAATATCTTACCTTATTTAGAACAGT 420
Qy 728 TCTTAAACCAACCGTCCATTACTATTTATGCAATGATGATGATGATGAGCATTCC 787
Db 421 GGTTCATATCAATCGCCAACTTAAATGATGATGATGATGATGATGATGATGATGAT 480
Qy 788 AACCCCTGCTTGAACAGATTCGTTGCTTCAATGTTGCTGCTGCTGCTGCTGCTGCTGCT 847
Db 481 AATATCGTCTAAACCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
Qy 848 ATTTGGTATCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 907
Db 541 TTTTGTGATCGTAAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Qy 908 GATTACAGAGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 967
Db 601 GATTACAGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Qy 968 TGTATAGATTTACAGTGTATTAAGATGACACAGTATTTGTAAGTTCGAGAGATTGACA 1027
Db 661 AAGTAAAGTAGAGTAACTAAAGATTAATACACAGTGTGTAAGTGTGTAAGTGTGTAAGT 720
Qy 1028 AGCTATTTGCTAATCGTATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1087
Db 721 CAGCATTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Qy 1088 TGACCGTGAAGAACTGACAAAGGTTGGGAAATTTAGCTGCTGCTGCTGCTGCTGCTGCTGCT 1147
Db 781 TGATCGTGAAGAAATTTACAAAGGCTTACCTAATTTAGCAGTGGTGTGTGCTATTTACA 840
Qy 1148 AGTAGAGCTCCAGACAGAGACGCTTAAAGAAATTTGCAATTTGCTGCTGCTGCTGCTGCTGCT 1207
Db 841 ACTAGTGCAGCAAGTGAAGAGCTTAAAGACGTAATTTAGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 1208 AATGCTACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1267
Db 901 AATTTACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Qy 1268 TACGTTATTTGAAGATGACAGCTTGTGAGCTTTGAGGCGATGATGCTACTGG 1321
Db 961 AATGTTTACCAAAAGTAGTAATTTGAGCTGAGAGGCTGATGCAACAG 1014

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RESULT 7

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US-09-738-626-665
: Sequence 665, Application US/09738626
: Publication No. US20020197605A1

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GENERAL INFORMATION:

```

: APPLICANT: NAKAGAWA, SATOSHI
: APPLICANT: MIKOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
: APPLICANT: HAYASHI, MIKIRO
: APPLICANT: OCHIRAI, KEIKO
: APPLICANT: TOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAKO
: APPLICANT: SENOH, AKIHITO
: APPLICANT: IKEDA, MASATO
: APPLICANT: OZAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738, 626
: CURRENT FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484
: PRIOR FILING DATE: 1999-12-16

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: PRIOR APPLICATION NUMBER: JP 00/159162
: PRIOR FILING DATE: 2000-04-07
: PRIOR APPLICATION NUMBER: JP 00/280988
: PRIOR FILING DATE: 2000-08-03
: NUMBER OF SEQ ID NOS: 7059
: SOFTWARE: Patentin ver. 3.0
: SEQ ID NO 665
: LENGTH: 1614
: TYPE: DNA
: ORGANISM: Corynebacterium glutamicum
US-09-738-626-665

Query Match: 27.9%; Score 464.2; Db: 9; Length 1614;
Best Local Similarity 56.4%; Pred. No. 8,4e-104;
Matches 890; Conservative 0; Mismatches 683; Indels 6; Gaps 1;

Qy 15 ATGGCAAAAGAAATCAAAATTTTCACAGATGCCGTGCTGCATGCTGCGGAGTTGAT 74
Db 1 ATGGCAAAAGCTATGCTTTTACCAAGAGAGCCCGGGAAGGATTCCTCCGGGGGTTGAC 60
Qy 75 ATGTTAGCAGATACCGCTCAAAAGTACGTTGTGCTTAAAGGGCCGAATGTTGTTGAA 134
Db 61 GCTCTGGCAAAAGCTGTCAAGGTAACTCTGGCCACCGGCGCGTAACGTTGTTCTTGTAT 120
Qy 135 AAAGCTTTGGTTCCTCTTAATTTACTATGACGGGGTAAACATGCTTAAAGATGGA 194
Db 121 AAGGCATTCGGCGGAGCCTGTGTCACCAAGAGAGGCGTGTACATGCTCCGGGAGATGAC 180
Qy 195 TTAGAAAGATCAATTTGAAACATGGAGCAAAATTTGTGTCTGTAAGTGGCTCTTAAAC 254
Db 181 CTGAGAGATCTTTTGAAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Qy 255 AATGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 314
Db 241 AAGCAATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Qy 315 GAGGACCTAAAAATGTGACACAGCTGCTAATTCATTTGATTCCTGCGAGGATGGA 374
Db 301 GAAGGCTGCGCAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
Qy 375 ACAGCAAGACGACGCTGTGAAGCCTTGAAGGATTTGCTCACTGCTGCTGCTGCTGCTGCTGCT 434
Db 361 GCAGCTGCAAGAAAGCTTGTGAAGAGTGAAGGACCGGACCGAGGCTGCTGCTGCTGCTGCTGCT 420
Qy 435 GAGCTATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 494
Db 421 AAGCAATTCGCAAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
Qy 495 TCAGAAAGTATGAGGCTGTGGGCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 554
Db 481 GCTGCAAGGATGGAAGGTTGGCAAGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
Qy 555 ATGGAAGAGAACTGAAGTGTGAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 614
Db 541 ATGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Qy 615 TACATGCTACAGCAATGAAAAATGTTGACAGCTTGAAGAACCATTTATCTTATATC 674
Db 601 TATTTATCAACAGCAAGCAAGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Qy 675 ACGGATAAAAAAGTGCMAACATCCAGACATTTTGGCACTACTTGAAGAGATCTTAA 734
Db 661 GTTCCAGCAAGATTTCTCCCTCCAGACTTCCCATTTGCTGAGAGGTTGGAG 720
Qy 735 ACCAAGCTCATTAATCAATTAATTTGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 794
Db 721 TCCAGCGCTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
Qy 795 GCTTGAAGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 854
Db 781 GTTGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Qy 855 GATCGTGTAAAGCTATGCTGGAAGACATTTGCTATTTGACAGCTGCTGCTGCTGCTGCTGCTGCT 914

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[illegible]

Wed Apr 16 08:05:36 2003

us-09-001-737-7.rnpb

Page 9

Db	958	AGGAAAGAGTCGACCTCGACGCTGGAGAACGCCGACCTGCTGCTGATGAGCAAGGCCCGC	1011
Oy	972	AGATTACAGTTGATTAAGATAGCACAGTATATGTTGAAAGGTTACAGAAAGCT	1033
Db	1018	AAGGTGCTGTGCACCAAGACACAGACCAACCATGCTGAGGGCGCCGGTACACCGACGCC	1077
Oy	1032	ATTGCTAACCCATATGCACTGATGTTAAATCCCAATTAGAAACAAACAACCTTCGACTTTGAC	1091
Db	1078	ATGCGCGGACAGAGGCGCCACGATCGCCACGAGATCGAAGAACAGCAGCTCCGACTAGAC	1137
Oy	1092	CGTGAAGAAACACACAAAGACGTTTGGCGAAATTAGCGTGGTGTGACTGTTATCAAGTA	1155
Db	1138	CGTAGAAAGCTGCAGAGGCGCTGGCAACCTGCGGTGTGTCCGCTGATCAAGGCC	1197
Oy	1152	GGAGCTCCCAAGAGACACTTTAAAGAAATGAACCTTGCAATTGAGATGCTTAAT	1211
Db	1198	GGTGGCGGCACACCAAGTGCACACTCAAGAGACCGCAAGCACGCAATCGAGGATGCGGTTCCG	1257
Oy	1212	GCACACGTCAGCCCTTTAAGAAAGTATCGTGTCTGTGTGTGAACAGACATTATTAAG	1271
Db	1258	ATATCCAAAGGCGCGCTGCAGAGAGGATGCTGCGCGGTGGGGGTGACCTTTTGCAA	1317
Oy	1272	GTTATTTGAAAAGTAGCACACTCTTGACCTTGAAGGGCGATGATCTTACTGAGCAATCATT	1331
Db	1318	GGGGGCCCGACCTTGACACACTTAACCTCGAAGGCGACAGCGACGCGCCACATTC	1377
Oy	1332	GTGCTTCCTGCTCTAAGAAAGCCTGTACGTCAAAATGCTTTAATCTGTTGAGCAAGGC	1391
Db	1378	GTGAAGGTGTGCGTGTGAGGGCCCCGCTGAAGACGATCGCTTCAATCGCGGGCTGAGACCG	1437
Oy	1392	TCCGAGTATTATACAAAGTTAAAAAACAGCCCTGTGAGGAAGACGATTAATATGCGCAAA	1451
Db	1438	GCGGTGTGGCCGACGAAGGTGCGCAACCTGCGCGCTGGCCACGACATGAAGCTCAAGAC	1497
Oy	1452	GGTGTGAGGGTATATGATTTAAACAGAAACATGATGACCCCTTCAAGTAAACAGATTA	1511
Db	1498	GGTGTCTACAGAGATGTCTGCTGCGCGCGCTGTGCTATGACCCGGTCAAGGTACCCCTTTG	1557
Oy	1512	GGGCTCTAAATACAGCTTCTGTAGCTAGTCTTATTTTGACAAACGAAGCAGTTGTGCT	1571
Db	1558	GGGCTGCAAGATTCGGCGCTCCATGCGGGGCGTGTCTGACCAACGAGGCGGTGTTGCC	1617
Oy	1572	ATAAACCCTGA	1583
Db	1618	GACAAAGCCGGAA	1629

RESULT 9
 US-10-267-311-28
 Sequence 28, Application US/10267311
 Publication No. US20030050469A1
 GENERAL INFORMATION:
 APPLICANT: Siegel, Marvin
 APPLICANT: Chiu, Randall
 APPLICANT: Milzen, Lee A.
 TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
 FILE REFERENCE: 12071/002001
 CURRENT APPLICATION NUMBER: US/10/267,311
 CURRENT FILING DATE: 2002-10-09
 PRIOR APPLICATION NUMBER: US/09/613,303
 PRIOR FILING DATE: 2000-07-10
 PRIOR APPLICATION NUMBER: US 60/143,757
 PRIOR FILING DATE: 1999-07-08
 NUMBER OF SEQ ID NOS: 55
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 28
 LENGTH: 1947
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: fusion gene
 FEATURE:

```

? NAME/KEY: CDS
? LOCATION: (1)...(1944)
US-10-267-311-28

Query Match      27.7%  Score 460: DB 9: Length 1947:
Best Local Similarity 55.8%  Pval No. 9.9e-10:
Matches 877: Conservative 0: Mismatches 699: Indels 0: Gaps 0

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[illegible]

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Db 1282 AAGCTGTGGTGCACACAGACGACACCCATCTGTCAGAGGCGCCGAGACCGGAC 1341
QY 1032 ATGCTTAACGGTATTGCACTGATTAATGCAATTAGAAACAACACTTGTGACTTGC 1091
Db 1342 ATGCGGAGAGTGTGCGCCAGATCCGCGAGATCCAGAACAGGACCTCCGACATCAG 1401
QY 1092 CGTGAACAACTACAGAACGTTTGGCGAAATTAGCTGTGTGTGTGTGTATCAAGTA 1151
Db 1402 CTGTGAAGATGCGAGAGCGGCTGCGCAAGCTGGCGGTGTGTGTGTGTATCAAGGC 1461
QY 1152 GGAGCTCCACAGACAGACTTTTAAAGAAATGAAATGCAATGAGATGCTTAAT 1211
Db 1462 GGTGCGCGACACGAGTGTGAACTCAAGAGCGCAACCGCATCTGAGATGCGGTGCG 1521
QY 1212 GGTACAGTGCACCGGTGAGAGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1271
Db 1522 AATGCAAGCGCCCGCTGAGAGGATCTGCGCGGTGTGTGTGTGTGTGTGTGTGTGT 1581
QY 1272 GTTATGAAAGATGACAGCTCTTGAAGCTTGAAGCGCATGTGTGTGTGTGTGTGTGT 1331
Db 1582 GCGGCGCGCGACCTGAGACGACTGAAGCTGCAAGGCGACAGCGCGCGCGCAATC 1641
QY 1332 GTGCTGTCTCTCTAGAAAGCTGTGACGTCAAAATGCTTAAATGCTGTGTGTGTGTGT 1391
Db 1642 GTGAAGTGTGCGGTGAGGCGCCGCTGAAAGCATCCCTTCACTCCGCGGTGTGTGTGT 1701
QY 1392 TCCGTAGTATTGACAAAGTTGAAACACCCCTGACAGAAACAGATTTAATGCTGTGTGT 1451
Db 1702 GCGGTGTGTGCGCGAAGAGTGTGCGCAACCTGCGCGGTGTGTGTGTGTGTGTGTGTGT 1761
QY 1452 GGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1511
Db 1762 GGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1821
QY 1512 GCGCTTAAATGACAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1571
Db 1822 GCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1881
QY 1572 AATTAACCTTAA 1583
Db 1882 GACAAAGCGGAA 1893

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RESULT 10
US-09-712-363-23
Sequence 23 Application US/09712363
GENERAL INFORMATION:
APPLICANT: Eisenberg, David
APPLICANT: Rotstein, Sergio H.
APPLICANT: Marcotte, Edward M.
TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
FILE REFERENCE: 07419-032001
CURRENT APPLICATION NUMBER: US/09/712,363
PRIOR FILING DATE: 2000-11-13
PRIOR APPLICATION NUMBER: PCT/US00/02246
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: 60/117,844
PRIOR FILING DATE: 2000-02-01
PRIOR APPLICATION NUMBER: 60/117,844
PRIOR FILING DATE: 1999-01-29
PRIOR APPLICATION NUMBER: 60/118,206
PRIOR FILING DATE: 1999-02-01
PRIOR APPLICATION NUMBER: 60/126,593
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: 60/134,093
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/134,092
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/165,124
PRIOR FILING DATE: 1999-11-12

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PRIOR APPLICATION NUMBER: 60/165,086
PRIOR FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 292
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 1623
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
US-09-712-363-23

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Query Match 27.6%, Score 458.6, DB 9, Length 1623;
Best Local Similarly 55.8%, Pred. No. 2e-102;
Matches 875; Conservative 0; Mismatches 694; Indels 0; Gaps 0;

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QY 15 ATGGCAAGAAATCAATTTTCAAGATGCGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 74
Db 1 ATGGCAAGAAATTTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 60
QY 75 ATGTAGAGATACCGCTCAAGATGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 134
Db 61 GCGCTGCGCGATCGGTAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
QY 135 AAGGCTTTGGTCTCCCTTAATTAATGAGGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 194
Db 121 AAGAAAGTGGGTGCGCCCGCATCATCAACGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
QY 195 TAGAAGATATTGTAAACATGTGAGCAAAATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 254
Db 181 CTGTGAGATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
QY 255 AATGATATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 314
Db 241 GATGACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 315 GAAGACTTAAATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 374
Db 301 GAGGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
QY 375 ACAGCAAGCAAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 434
Db 361 AAGGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
QY 435 GAAGCTATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 494
Db 421 GAGCGATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
QY 495 TCAGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 554
Db 481 GCGGAGCGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540
QY 555 ATGCAACAACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 614
Db 541 TTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
QY 615 TACATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 674
Db 601 TACTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660
QY 675 ACGGATTAATAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 734
Db 661 GTGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
QY 735 ACAGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 794
Db 721 GCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
QY 795 GATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 854
Db 781 GTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840
QY 855 GATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 914
Db 841 GACCGCGGAGGCGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900

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Oy 915 GAGACTAGGACTGTGATTAATAAGATGCTACATGACGCCCTTGAGCGCTGTAG 974
Db 901 GAAGAGGTGCGCCCTGAGCGCTGAGACGCCGACCTGCTGCTGCTAGCAGAGCCCGCAG 960
Oy 975 ATTACAGTGAATAAGATGACAGCATGATGTTGAGAGTTGAGAGTTGAGAGTTT 1034
Db 961 GTCTGTGTCACCAAGACAGACACCATCTGTCGAGGCGCGCTGTACACGAGCCATC 1020
Oy 1035 GCTAACCTATGCTACTGTTAAATGCAATTGAAACAAACACTTGTGACTTTGACCGT 1094
Db 1021 GCCGACGAGTGGCCGACATCCGCGAGAGATCGAAGAACGCGACTCGGACTACGACCGT 1080
Oy 1095 GAAAACTACAGAACGTTTGGCAATTAGCTGGTGGTGTGCTGTTATGCAAGTAGGA 1154
Db 1081 GAGAACTGACAGAGCGGCTGCGCAAGCTGGCGGCTGGTGTGCTGCTGATCAAGCCGGT 1140
Oy 1155 GCTCCAAACAGACAGCTTTAAAGAAATGAAACTTGCATGAGATGCTTAAATGCT 1214
Db 1141 GCCGACGAGGTGCACTCAAGACCGCAAGCAGCATGAGAGTGGCTTCCGAT 1200
Oy 1215 ACAGCTGACCGCTTGAAGAGGTATGCTGGTGGTGGAAACAGCACTTATACGCTT 1274
Db 1201 GCCAAGCGCCCTGAGAGGAGGATGCTGCCGCTGGGCTGTGACGCTTGTGCAAGCG 1260
Oy 1275 ATTGAAAAGTACAGCTCTTGAAGCTTGAAGCGCATGATGCTACTGACGATACATTGTG 1334
Db 1261 GCCCGACCTGAGACAGCTGAAAGCTGAAAGCGACAGGCGACCGCGCCACATCTGTG 1320
Oy 1335 CTTCGCTCTAGAACAGCTGTACGTCAATTTGCTTAAATGCTGGGTAGCAGAGCTCC 1394
Db 1321 AAGTGGCTGTGAGGCCCGCCCTGAAGCAGATCGCTTCAACTCCGCGTGAAGCGGCG 1380
Oy 1395 GTAGTTATGACAGTTGAAACAGCCCTGCGAGAACAGAGATTTATGTCGACAGGT 1454
Db 1381 GTGTGGCCGAGAGAGTGCAGACCTGCGCGCTGCGACAGACTGACGTCAGACCGGT 1440
Oy 1455 GAGTGGTGTATGATTAATAACAGAAATCATGTGACCTGCTCAAGTAAACAGATGAGG 1514
Db 1441 GTCTACGAGATCTGCTGCTGCGCGCTGTGCTGACCCGCTCAAGTACACCTGTGGCG 1500
Oy 1515 CTTCAAAATGCAAGCTTCGTGATGCTATGTTTTCGAAACAGAGAGCTTGTGTAAT 1574
Db 1501 CTGCAAAATCGCGCTCCATCGCGGCGCTGTTCTGACACAGCGAGCGCTGTGTCCGAC 1560
Oy 1575 AACCTGAA 1583
Db 1561 AAGCCGGA 1569
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RESULT 11
US-10-267-311-3
; Sequence 3, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Mizeen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1623
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
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OTHER INFORMATION: fusion sequence
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1620)
US-10-267-311-3
Query Match 27.6%; Score 458.6; DB 9; Length 1623;
Best Local Similarity 55.8%; Pred. No. 26-102;
Matches 875; Conservative 0; Mismatches 694; Indels 0; Gaps 0:
Oy 15 ATGCAAAAGAAATTTTTCAGCAGATGCGGCTGCGCATGCTGCGCGGAGTTGAT 74
Db 1 ATGCAAAAGAAATTTTTCAGCAGATGCGGCTGCGCATGCTGCGCGGAGTTGAT 74
Oy 75 ATGTAGCAGATGACGCTCAAGTAAAGCTTGTCTTAAAGGCGCAATGTTCTTGA 134
Db 61 GCCCTGCGGATGCGGTAAGGTGACATTGGGCGCCAGGCGCAACCTGCTCTGGA 120
Oy 135 AAGCTTTGTTCTTCTTAAATTAATGACGGGGTAACCATTTGCTAAGAGATGAA 194
Db 121 AAGAGTGGGGTGGCCCGACAGATCACCAAGATGGTGTCTCATCGCCAAAGAGATGAG 180
Oy 195 TTGAAGATCATTTTGAACATGGGAGCAAAATTTGTGTGAAAGTGGCTTTAAAGC 254
Db 181 CTGAGAGATCGCTACGAGAAATGCGCGGAGCTGTCTCAAGAGGTAGCCAAAGAGAC 240
Oy 255 AATGATATTGCTGTGATGAGGAGACACTGTGCAACAGTTTGAACAGGCAATTTGAT 314
Db 241 GATGACGTGCGCGGTGACGCGACACAGCGCCACCGCTGTGCGCCAGCGCTGTTCG 300
Oy 315 GAAGGACATTAATTTGACAGCAGGCTCAATCCATTTGATGCTGAGGCTTGA 374
Db 301 GAGGAGCTGCGCAACGTCGCGCGCGCGCCACCGCTGCTGCTCAAGGCGGATGAA 360
Oy 375 ACAGCAACGACAGCTGTTAAAGCTTGAAGCCATTTGCTCAACCTGTATCTGCA 434
Db 361 AAGGCGTGGAAAGGTGACAGGACCTCTCAAGGCGGCAAGAGGATGAGACAGCA 420
Oy 435 GAGCTATGCTCAGGTGCTGCAATATCATACGCTCTGAAAGTGTGAGAGTATATC 494
Db 421 GACAGATTTGGCGGACCGACCAATTTGCGCGGTGACAGCTCATCTGCTGAC 480
Oy 495 TCAGAGCTATGAGCGTGTGGCAAGATGATGATTAACATTCGAAGATTCGAGGT 554
Db 481 GCGAGGCGATGACAAAGTGGGCAAGAGGCGTATCACCGTCGAGAGATCCACAGC 540
Oy 555 ATGAAACAGAACTGAATGTTGAAGGATGCAATTTGACGCTGTTACTGCTCA 614
Db 541 TTTGGGTGACGCTGAGCTACCGAGGTATGCGGTTCGACAAAGGCTCATATCTGGG 600
Oy 615 TACATGTCACAGCAATGAAATTAAGTGTGCAACCTTGAAGCCATTTATTTATC 674
Db 601 TACCTTGCAGCCAGCCGAGCGTCAGAGCGGCTGCGAGACCCCTCATATCTGCTG 660
Oy 675 ACGGATTAATAAGTTCACAACTCAAGACATTTTGCACACTTACTGAGGAAGTCTTAA 734
Db 661 GTACACTCAAGGTGTCACCTGTCAAGATGCTGCGCTGTCTCAAGAGTATCGGA 720
Oy 735 ACCAAGCTCCATTACTATTAATGCAATGATGTGATGATGAGACACTTCAACCTT 794
Db 721 GCCGTAAGCCGCTGATGATGATGCGGAGAGCGTCGAGGCGAGGCGCTGTCAACCTG 780
Oy 795 GTCTTGAAGAATGCTGACTTTTCAATGATGCTGTGCTGCAAGCCGAGATTTGT 854
Db 781 GTCTGCAACAAGATCGCGGCACTTCAAGTGGTGGGTCAAGGCTCCGGGCTTCGCG 840
Oy 855 GATGCTGTAACCTATGCTGAAGCATTTGTAATCTGACAGGCTGACAGATTA 914
Db 841 GACGCGCAAGCGCATGCTCAGAGATGCGCATTTCTACCGGCTGACAGATGACG 900
Oy 915 GAGATCTAGCACTTAATTAAGATGCTACATGACGCCCTTGAAGAGCTGTAA 974
Db 901 GAGAGGTGCGCTGACCTGAGAACGCGGACCTGTGCTGAGCAAGGCCCGCAG 960
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QY 1035 GCTAACGCTATTGACATGATTAATCCGATATGAAACACAACTTCTGACTTGGACCGT 1094
DB 1021 GCCGACGAGTGGCCCGGATCCGCCAGAGATGAGAAACACGACCTCCAGTACGACCGT 1080
QY 1095 GAAAACTACAGACGCTTGGCGAAATTAAGCTGGTGTAGCTGTATCAAAATAGGA 1154
DB 1081 GAAAGCTGACAGAGCGGCTGCCAAAGCTGGCCGGTGTGTGCGGTGATCAAGGCGGT 1140
QY 1155 GCTCCACAGAGACGCTTTAAAGAAATGAACTTGCATTGAGAGATGCTTAATGCT 1214
DB 1141 GCCGCCACCGAGGTGCACTCAAGAGCGCAACGCCATCGAGATCGGGTCCCAAT 1200
QY 1215 ACACGTGACGCGCTGTAAGAGATATCGTTCGTGGTGGAGACAGACTTATTACGGTT 1274
DB 1201 GCCAAGCGCGCGTCAAGAGAGCGCATCGTCCCGGTGGGGGTGTGACGCTGTTCAGCG 1260
QY 1275 ATTGAAGAGTACGACCTCTGAGCTTGAAGCGGAGTGTGCTACTGAGCTAAGATTG 1334
DB 1261 GCCCGGACCGTGGACGAGCTGAACTGCAAGCGGACGAGGCGACCGCCGCAACGCTG 1320
QY 1335 CTTCGTGCTAGAGAGCTGTATGCTCAATTTGCTTAAATGCTGGTAGAGAGCTTC 1394
DB 1321 AAGTGGCGCTGGAGCGCCCGCTGAAGCAATGCGCTTCAACTCGGGGTGAGACCGCG 1380
QY 1395 GTAGTTATTGACAGATTGAAACAGCCCTGCAGAGACAGGATTTAATGCTGCAACGT 1454
DB 1381 GTGGTGGCCGAGAGGTGGCGCAACCTGCGCGTGGCCAGGACTGAACGCTCAGACCG 1440
QY 1455 GAGTGGTGTATGATTAATAACAGAAATCATTTGACCCCTGTCAAAATACAGCATG 1514
DB 1441 GTCTACGAGATCTGCTGCTGCGGCTGCGGTGCTGACCGGCTCAAGGTGACCGGT 1500
QY 1515 CTTCGAAATGACGCTTGTGTAGTACTTATTTTGTGACACAGACAGATGTTGTTG 1574
DB 1501 CTGCAGATGCGGCGCTCATCGCGGGGCTGTTCCTGACACGAGCGCGTGTCCGAC 1560
QY 1575 AAGCTGAA 1583
DB 1561 AAGCGGAA 1569

RESULT 13

US-09-738-626-1/c
Sequence 1, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAMA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738, 626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: Patentl ver. 3.0
SEQ ID NO 1
LENGTH: 3309400
TYPE: DNA
ORGANISM: Corynebacterium glutamicum

US-09-738-626-1
Query Match 27.6%; Score 458.4; DB 9; Length 3309400;
Best Local Similarity 56.4%; Pred. No. 1,2e-100;
Matches 905; Conservative 0; Mismatches 681; Indels 18; Gaps 2;
QY 12 CATATGGCAAAAGAAATGAATTTTACAGATCCGCGTGTGCGCATGCGCGGAGATT 71
DB 289043 CACATGCCAAAGATCATCCCTTATGAGAGAAAGCACTCTGCTCAAAAGGACCTG 2890484
QY 72 GATATGTTAGAGATACCGTCAAGTAAAGCTGTCTAAAGGGCCCAATGTTTCTT 131
DB 2890483 AACCCCTGCTGACGCTGTTAAGTTACTTGGGACAAAGGCGGTAAAGCTGTTTG 2890424
QY 133 GAAAGCTTTTGTCTCCCTTAATTAAGTACGGGGTAAACCATGCTAAGAGATC 191
DB 2890423 GAAAGGCTGGGTGCCCCAAGCATTAACCAAGATGTGACACATCCAGTGAGATC 2890364
QY 192 GAATTAGAGATCATTTTGAAGAAACATGGAGCAAAATTTGTGCTGAAGTGGCTTTAA 251
DB 2890363 GACCTTGAGATCCTTACAGAAATCGCGCGAGCTGTGTAAGGAAAGTGGCTAAGAG 2890304
QY 252 ACCAATGATATTGCTGTGTGAGAGAGTACTGCAACAGTTTGAACACAGCATTTGTT 311
DB 2890303 ACTGATGACGTGCGGGCGATGCGACACACCGCTACCGTATTTGGCACAGGCTGTGTT 2890244
QY 312 CATGAAGACTTAAATAATGTGACAGAGTGTATCAATTTGATTCGCGAGGACAT 371
DB 2890243 CGGGAAGCGCTGGGCAAGCTTGTGCTGCTGCTAAGCCAAATGGGATCAAGCGTGCATC 2890184
QY 372 GAAACAGCAAGCAAGAGCTGTGTAAGCCTTGAAGCCATTGCTCAACCTGATCTG 431
DB 2890183 GAGAGGCTGTGCTGAGTAACTGAGAGAGCTGCTGAGAGCTGCAAGAAAGTTGAGAC 2890124
QY 432 AAGGAAGCTATTGCTCAAGGTGCTGCTGAGTATCATCACTGTGTAAGAAAGTTGAGAGAT 491
DB 2890123 GAGGAGCAGATGCTGCTACAGCTGTGATTCGCAAGTACCAAGTATGGGCGACAG 2890064
QY 492 ATCTCAGAGCTATGAGCGGTGGG-----CAAGATGATGTATTAC 536
DB 2890063 ATTGCTAAGGCAATGTACCGAGTGTGGCGTGGCAAGTGAACAGATTTCCGTATCACT 2890004
QY 537 ATCGAAGATCTCGAGGTATGAAACAGACTTGAAGTGTGAAGCATGCAATTGAC 596
DB 2890003 GTTGAAGAGTCCAACTTTCGCTGTGAGCTGAGAGTTACTGAGGATATGCGTTGAT 2889944
QY 597 CGTGGTACCTGTCTCAATGATGTCACAGACATGAAAGAAATGCTGCACAGCTTGA 656
DB 2889943 AAGGCTTACATCTCCGCTTACTTGCACAGTGAAGAGCGCTCGAGCGTTCCTGGA 2889884
QY 657 AACCCATTATCTTAATCAACAGATTAAGAAAGTCAAAATCCAAAGCATTTTGGCACTA 716
DB 2889883 GATCTTACATCTGCTGTGTTCCGCGAGATCTCAACATCAAGAGCTGCTCCACAG 2889824
QY 717 CTGAGAGAGTTCTTAACCAACCGTTCATTCATATTATTCAGATGATGATGAT 776
DB 2889823 CTGAGAGAGTTCAGAGTCCGCAAGCCCTTGTGATTCATTCAGATGAGAGTGGGGG 2889764
QY 777 GAAGCACTTCAACCCCTTGTCTTGAACAAGATTCGTGACTTTCATATGCTGTCTG 836
DB 2889763 GAGGCTGTGTCACCCCTGTGTGTCAACAGATTCGCTGACCTTAAGTGTGTGTGT 2889704
QY 837 AAGCCCAAGGATTTGTGATCGTCAAGCTTGTGAAGCATTCGATCTGACA 896
DB 2889703 AAGGCTCGCGGCTGCGGAGCGTCAAGCGTCAAGGAGATGCTGCTGTGAC 2889644
QY 897 GGTGTAGAGTATTACAGAGATCTAGAGCTTGAATTAAGAGCTCAATGACGCC 956
DB 2889643 GGTGCGCAGGTCAATTCGAGAGAGTGGCTCTCCCTGACAGCGCTGATCGCACAT 2889584
QY 957 CTGAGACAGGCTGCTAAGATTTACAGTGAATTAAGATACAGATTAATTTGAGAGTTCA 1016
DB 2889583 CTAGGCGACGCGACAGAGTGTGTTCACAGAGTACACCACTGCTTGGACGCGCA 2889524

Oy 1017 GGAAGTTCAGAACTATTGCTAAACCTATGCACTGATTAAATGCAATTAGAAACACA 1076
 Db 2889533 GGTCTGAGGCTCAGATTCGAAAGGCGGCTCACCAACATCCCGCTTGAAGATCCGAGACTCC 2889464
 Oy 1077 ACTCTGACTTTGACCGTGAAAAAATACAAAGACCTTGGCGAAATATTAGTGGTGGTGA 1136
 Db 2889463 GATTTCGACTGACCGCTGGAAGCTCAACGACCTGCTGCTTAAGCTCGCGGCGCTT 2889404
 Oy 1137 GCTGTATCAAGTAGAGAGCTCCACAGAGACACTTTAAAGAAATGAAGACTGGCAT 1196
 Db 2889403 GCAGTCTTAAGTGGGCGCAGCTACGAGGTGAGCTCAAGAGGCGAGACAGCCGATT 2889344
 Oy 1197 GAGATGCTCTTAATGCTACAGCTGACGCGTGAAGAGATGCTGCTGGTGGTGA 1256
 Db 2889343 GAGATGCTGCTGCTGCTTAAGCTTAAGGCACTGTTGAAGAGGCTGTTCCGCGGCTG 2889284
 Oy 1257 ACACGCTTATTAAGCTTATGAAAGTAG--CAGCTTGAAGCTTGAAGGCGCAT 1313
 Db 2889283 GTTGGCGCTGACAGCTGCTGACGCTGACAGACAGTCTGAGCTTTCGCGGAGAG 2889224
 Oy 1314 GCTACTGACGCTACATTTGCTTCTGCTCTAGAGAGCTGACCTGACAAATTGCTTTA 1373
 Db 2889223 GCACCGGCGCTGCTGCTGCTGCGAGGCTGAGCTGCTGCTGAGAGAGATGCTGCT 2889164
 Oy 1374 AATCTGGGTACGAAAGCTCCGATGTTATGACAGATTGAAACAGCCCTGACAGAA 1433
 Db 2889163 AACGCTGGCTGCGAGCCAGGCTGTTGCTGACAAAGTTCCAGCTCCACAGGCGAG 2889104
 Oy 1434 GATATTAATGCTGACAGAGGTGAGTGGTGTATGATTAATTAAGAGAAATCATGACCT 1493
 Db 2889103 GGGCTTCAACGCTGCAAAAGGCGAGTGTGACCTCATGAGCTGCGGAGCTCAAGACCA 2889044
 Oy 1494 GTCAAGTAAACAGATGAGGCTTCAAAATGACAGCTTCTGATGATGCTTATTTGCA 1553
 Db 2889043 GTTAAAGTACACCGCTCGCAGCTCAACAGCTGATCATTGACGCTGTTCTTAC 2888984
 Oy 1554 ACAGAGCAGTGTGTTGTTAAATTAACCTAACACAGCTACGCCAGC 1597
 Db 2888983 ACTGAGCTGCTGCTGCTGCTACAGCAGACGCTGAGGCGCAGC 2888940

 RESULT 14
 US-10-068-059-7
 Sequence 7, Application US/10068059
 Patent No. US2002015543A1
 GENERAL INFORMATION:
 APPLICANT: Mizen, Lee A.
 APPLICANT: Hongwei, Liu
 TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
 FILE REFERENCE: 12071-017002
 CURRENT APPLICATION NUMBER: US/10/068,059
 PRIORITY FILING DATE: 2002-06-04
 PRIOR APPLICATION NUMBER: US 60/266,733
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 7
 LENGTH: 2130
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1)...(2127)
 OTHER INFORMATION: Nucleic acids encoding fusion protein
 US-10-068-059-7

 Query Match 27.5%; Score 457.2; DB 9; Length 2130;
 Best Local Similarity 55.7%; Pred. No. 5e-102;
 Matches 876; Conservative 0; Mismatches 698; Indels 0; Gaps 0;
 Oy 10 TTATATGCGCAAAAGAAATTTTCACAGAGTCCGCTGCTGCTGCTGCTGCGCGAG 69

Db 503 TTGTTAGGCCCAAGCAATTCGTACAGAGAGAGCCGCTCGCGGCTCTCAGAGGGGCT 562
 Oy 70 TTGATATGTTAGAGATACGCTCAAAATGACCTTGTCTTAAGGGCGCAATTTGTC 129
 Db 563 TCAACGCCCTCGCGATTCGGTTAAAGTGTATTTGGCCCCAGGCCGCAACGCTGCTC 622
 Oy 130 TTGAAGAGCTTTGGTTCTCCCTTAATTAATGACGGGTAAACATTCCTAAAGAGA 189
 Db 623 TGGAAAGAGTGGGTGCCCCACGCTACCAACAGATGTGTCTCATCCCAAGAGAGA 682
 Oy 190 TCGAATTAAGATCTTTTGAAGACGTGGAGCAAAATTTGTCTGTAAGTGGCTTCTA 249
 Db 683 TGACAGTGGAGATCCGTACAGAAATGCGCCGAGCTGTCTCAAAAGGTATACCAAGA 742
 Oy 250 AAACCAATGATTTGTGTGATGGAGACACTACTGCAACAGTTTGTGACACAAACCAT 309
 Db 743 AACCCGATGACGTCGCGGTGACAGCACACGACGCGCCACGCTGCTGAGCCAGCTTGG 802
 Oy 310 TTGATGAGAGCTAAAAAATGTGACAGAGTGTCTTAATCCAAATGGTATCCGTGAGGA 369
 Db 803 TTGCGAGGCGCTCGGCAAGCTGCGCGCGCGCGCCCAACCCGCTCGCTCTCAAAACGGCA 862
 Oy 370 TTGAAGACAGACAGCAACAGCTGTTGAAGCTTGAAGCAATGCAATGCTCAACCTGTAT 429
 Db 863 TCGAAAGGCGCTGAGAAAGTCAACGACACCTGCTCAAGGCGCGCAAGAGGTGAGA 922
 Oy 430 GCAAGAGAGTATGCTGAGTGGCTGCTGCTGCTATCATCAGCTCTGTAAGAAAGTTGAG 489
 Db 923 CCAGAGAGAGTATGCTGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 982
 Oy 490 ATATCTAGAGATGAGAGCTGTGGGCAAGAGTGTGTATACATCAATCGAAGAAATCTC 549
 Db 983 TGAATGCGCGAGGTGAGCAAGGTGGGCAAGAGGCGCTCATACCTCTCAGAGTCCA 1042
 Oy 550 GAGTATGAGAAACAGAACTTGAAGTGTGAAGCATGCAATTTGACCGTGTATACCTGT 609
 Db 1043 ACACCTTGGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 1102
 Oy 610 CTCAATACATGCTCAGACATGATAAATGTTGACAGCTTGAAGAAACCATTTATCT 669
 Db 1103 CGGGTACTTCTGACAGCCGCGAGCTGAGAGGGGCTGAGAGAGCCCTACATCTC 1162
 Oy 670 TAATCAGGATTAAGAGTCAAAACATCAAGACATTTGGCACTACTGATGAGAAATTC 729
 Db 1163 TGTGTCAGCTCCAGAGTGTCCACGTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1222
 Oy 730 TTAAGCAACGCTGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 789
 Db 1223 TCGAGCGGTTAGCCGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1282
 Oy 790 CCTTGTCTTGAAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 849
 Db 1283 CCGTGTGCTCAAGAGTCCGCGGACCTTCAAGTGGTGGGCTGCTGCTGCTGCTGCTGCTGCT 1342
 Oy 850 TTGCTGATGCTGTAAGAGTCTGTAAGAGATGCTATCTTGAAGAGGTGATACAGTGA 909
 Db 1343 TCGGCGAGCGCGCAAGGCGATCTGAGGATGAGGCAATTCACGCGGTGCTAGAGTGA 1402
 Oy 910 TTACAGAGATTAAGACTTGAATTAAGATGCTACAAATGACACCCCTTGGAGGCTG 969
 Db 1403 TCAGCGAAGAGTGGCTGAGCTGAGGAGAACGCGCTGCTGCTGCTGCTGCTGCTGCTGCT 1462
 Oy 970 CTAGATTAAGTGAATTAAGATGACAGTAATGTTGAAGCTTCAAGAGTTCAGAG 1029
 Db 1463 GCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1522
 Oy 1030 CTATGCTACGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1089
 Db 1523 CCAATGCGCGAGAGTGGCCCAAGATCCCGAGAGATTCAGAACAGGAGCTGCTGCTGCTGCTGCT 1582
 Oy 1090 ACCGTAAAGACTCAAGAACTTTGGCGAAATTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1149

Db 1583 ACCGTGAGAACTGTCAGAGAGGGCTGGCCAAAGTGGCCCGGTGCTGCGGGTGAATCAAG 1642

Qy 1150 TAGSAGCTCCACAGAGACAGCTTTAAAGAAATATAAATCTCCATTGAGATGCTCTAA 1209

Db 1643 CCGGTCCGCGACCGAGGTCGAATCAAGAGCGCAAGACACCGCATCGAGATCGGCTTC 1702

Qy 1210 ATGCTACAGCTGCAGCCCTTGAAGAAGTATGCTGTGTGTGTCAGACAGCTTATTA 1269

Db 1703 GCATGCGCAAGCGCCGTCGAGAGGGGCTGCTGCGCGGGGGGTGTGACGTGTGTC 1762

Qy 1270 CGGTTATTGAAAAAGTACAGCTCTTGAAGCTTGAAGGCGAGTATGCTACTAGCTAAC 1329

Db 1763 AAGCGGCCCCGACCTGAGACAGCTGAAGCTGAAGCTGAAGGCGACAGGCGCGCCCAAC 1822

Qy 1330 TTGTGCTTCGTCTAGAGAGCTGTAGCTCAATTCCTTTAAATGCTGGTGAAG 1389

Db 1823 TCGTAAGTGGCGCTGAGAGCCCGCTGAGACAGATGCTCAACCTCGGCGCTGAGC 1882

Qy 1390 GCTCGTAGTATTGACAAAGTTGAAAAAGCGCTGCAAGACAGATTTAATGCTGCA 1449

Db 1883 CCGGCGTGTGGCGCGAAGGTGCGCAACCTCGCGCGACAGACTGACCTGAC 1942

Qy 1450 CAGGTGAGTGGGTGATGATTAATAACAGAAATCATTTAGCCTGTCAAGTAAACAGAT 1509

Db 1943 CCGGTCTACAGAGATCTGCTGCTGCGCGCTGCTGACCGGTCAGAGGTGACCGCTT 2002

Qy 1510 CAGGCTTCAAAATGACGCTTCTGTACGATGCTTATTGACAAAGACAGCTTGTG 1569

Db 2003 CGGCGCTGCAAGATGCGGCTGACGCGGGGCTTCTCGACCAAGACCGCTGTTG 2062

Qy 1570 CTAATAAACCCTGAA 1583

Db 2063 CCGACAGCCGGA 2076

RESULT 15

US-09-738-626-2986

Sequence 2986, Application US/09738626

Publication No. US20020197605A1

GENERAL INFORMATION:

APPLICANT: NAKAGAWA, SATOSHI

APPLICANT: MIKOGUCHI, HIROSHI

APPLICANT: ANDO, SEIKO

APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIAI, KEIKO

APPLICANT: TOKOI, HARUHIKO

APPLICANT: TATEISHI, NAOKO

APPLICANT: SENOH, AKIHIRO

APPLICANT: IKEDA, MASATO

APPLICANT: OZAKI, AKIO

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

FILE REFERENCE: 249-125

CURRENT APPLICATION NUMBER: US/09/738, 626

CURRENT FILING DATE: 2000-12-18

PRIOR APPLICATION NUMBER: JP 99/377484

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: JP 00/159162

PRIOR FILING DATE: 2000-04-07

PRIOR APPLICATION NUMBER: JP 00/280988

PRIOR FILING DATE: 2000-08-03

NUMBER OF SEQ ID NOS: 7059

SOFTWARE: PatentIn ver. 3.0

SEQ ID NO 2986

LENGTH: 1644

TYPES: DNA

ORGANISM: *Corynebacterium glutamicum*

US-09-738-626-2986

Query Match 27.5%; Score 457; DB 9; Length 1644;

Best Local Similarity 56.4%; Pred. No. 4.9e-102;

Matches 903; Conservative 0; Mismatches 680; Indels 18; Gaps 2;

Qy 15 ATGCAAAAGAAATCAATTTTCAGCAGATGCGGCTGCTGCATGCTGCGGAGTGTAT 74

Db 1 ATGSCAAATATCATCGCTTTGATGAGAACACAGCTGCGCTAGAAAAGGACTGAC 60

Qy 75 ATGTAGCAGATACCGTCAAAAGTACCGTTGTCTTAAGGGCCCAATGTGCTTGA 134

Db 61 ACCCTGCTGACCGCTTAAGGTACTTTGGAGCAAAAGGCGCTAACGTCGTTTGA 120

Qy 135 AAAGCTTTGGTTCCTTAAATTAATAGGGGGTACCATTTGCTAAAGATGCA 194

Db 121 AAGGCTTGGGGTCCCAACATTCAGAAAGATGTGTACCATTCGACGTAGATGAG 180

Qy 195 TTGAGATCATTTTGAAMACATGGAGCAAAATTTGTCTGTAAGTGTCTTAAAC 234

Db 181 CTGAGGATCTCTACGAGAAAGATGCGCGACAGCTGTGAMGAAATGCTGAAGACT 240

Qy 255 AATGATATTGCTGTGTATGAGACACTGTGCAACAGTTTGAACACAGCATTTGAT 314

Db 241 GATGACGTGGGCGGATGACACACACCGCTACCGTATTTGGACAGGCTGTGTCGG 300

Qy 315 GAAGACTAAAAATGTGACAGCAGTGTCAATTCATTTGTATCCGTGAGGCAATGAA 374

Db 301 GAAGGCTGCGCAAGCTTGTCTGTCTTACCCAAATGGGCATCAAGGTCATGAG 380

Qy 375 ACAGCAACAGCAGCTGTGAAAGCTTGAAGCCATTCGCAACCTGATCTGCAAG 434

Db 361 AAGGCTGTGTCTCAGGTAAGTGAAGCTCTGAGGCTGCGAAGAAATGAGACCG 420

Qy 435 GAAGCTATTGCTCAGGTGCTGCTACTATCATCAAGCTGTGAAAAAGTGGAGATATG 494

Db 421 GACCAATGCTGCTACCGGTGTATCTCGGAGGTGACCCAGCTATCGGCCACAT 480

Qy 495 TCAGAGCTATGAGAGCGTGGG-----CAACAGTGTGTGATTCATG 539

Db 481 GCTAAGCATGTAGCAGATGTGGCGTGGCAAGCTGACAAAGATTCGTCATGCTGT 540

Qy 540 GAGGAATTCAGGATATGAAACAGAACTGGAAGTGTGAAGGCAATTTGACCGT 599

Db 541 GAAGACTCAACACTTTCGTTGATGCTGAGGTTACTGTGGGATGCGCTTGAATAG 600

Qy 600 GGTATCTGTCTCAATATGATGTCAGAGCAATGAAAAATAGTTGACAGCTTGA 659

Db 601 GGTATCTGTCTGATTTCTTCCAACTGATGAGAGCCCTGAGGCTGTTGTGAAGAT 660

Qy 660 CCATTTACTTATATCAGGATAAAAAGTCAACATTCAGCAATTTTGGCACTT 719

Db 661 CTTTATATCTGCTGCTGTTCCGCAAGATCTCCAAATCAAGAGCTGCTCCACTGT 720

Qy 720 GAGGAATTTTAAACCAACCGTGCATTTCTATTTATGAGATGATGATGATGAG 779

Db 721 GAAAGGTCTAGCAAGTCCGGAAGCTTTCTGTATCATCTGTGAGACCTGAGCGGAG 780

Qy 780 GCATTTCAACCGCTTCTTGAAGAAATTCGCTGCTTCAATGATGTTGCTGTA 839

Db 781 GCTGTCTACCGCTGTTGTCAACAAATCCGAGACCTTCAAGCTGTGCTGTAG 840

Qy 840 GCCCAGATTTGTGTATGCTGTAAGGATGCTTGAAGCAATCTATCTTGAAG 899

Db 841 GCTCGGCTTGGCGACGCTGTAAGGCTGAGGCAATCTCTTCTTACCGGT 900

Qy 900 GTTACAGTATTAAGAGATCTAGAGCTGAATTTAAAGATGCTCAATGACAGCCCT 959

Db 901 GGCAGGATCTTCTGAAAGGTGGCTCTCCCTTGAAGCCCTGATCTGCACTCTTA 960

Qy 960 GACAGGCTGCTAGATTAAGTATTAAGATGACAGTAAATTTGAAGTTCAG 1019

Db 961 GGCAGGACGCAAGGTTGTGTACCAAGATGACACACAGATCTTTAGGCGGAG 1020

Qy 1020 AGTCAAGAGCTATGCTTACCGTATTTGACAGATTAATGCAATTTGAAGCAAC 1079

Db 1021 TGTGAGGCTGATGATCAAGCGCGGTCAACCAAGATCCCGTGTATGATGAGATCG 1080

Qy 1080 TGTGATTTGACCGTAAAACTACAGAAAGTGTGGCAATTTAGCTGTGTGATGCT 1139

